Approved for use through 10/31/2002, OMB 0651-0032

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UTILITY PATENT APPLICATION

40296-0005 Attorney Docket No. First Inventor Hee Bok KANG SEMICONDUCTOR MEMORY DEVICE WITH ADJUSTABLE I/O Title BANDWIDTH

TRANSMITTAL Express Mail Label No. (Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 1. 🔯 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 2. Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. Specification [Total Pages | a. Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: - Descriptive title of the Invention i. CD-ROM or CD-R (2 copies); or - Cross Reference to Related Applications ii. 🗌 paper - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention 9. 🛛 - Brief Summary of the Invention Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 🔲 37 C.F.R.§3.73(b) Statement Power of Detailed Description (when there is an assignee) Attorney - Claim(s) - Abstract of the Disclosure 11. 🔲 English Translation Document (if applicable) 4. 🔯 Drawing(s) (35 U.S.C.113) 12. Copies of IDS [Total Sheets 20 Information Disclosure Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration [Total Pages | 3 13. 🔲 **Preliminary Amendment** a. Newly executed (original or copy) 14. 🛛 Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🖂 Certified Copy of Priority Document(s) i. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) 16. 🔲 Nonpublication Request under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation □ Divisional of prior application No: ___ ☐ Continuation-in-part (CIP) Prior application information: Group / Art Unit: _ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS 26633 or 🗆 Correspondence address below ☑ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Name Address Citv Zip Code State Country Telephone Name (Print/Type) Registration No. (Attorney/Agent) 34,649 Signature July 30, 2003

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 915 Complete if Known FEE TRANSMITTAL Application Number Unassigned for FY 2003 Filing Date July 30, 2003 • Effective 01/01/2003. Patent fees are subject to annual revision. First Named Inventor Hee Bok KANG **Examiner Name** Unassigned Applicant claims small entity status. See 37 CFR 1.27 Art Unit Unassigned TOTAL AMOUNT OF PAYMENT (\$) 1,294.00 Attorney Docket No. 40296-0005 METHOD OF PAYMENT (check one) FEE CALCULATION (continued) □ Check ☐ Credit card ☐ Money Order Other ☐ None ADDITIONAL FEES ☐ Deposit Account: Deposit Entity Small Large Entity Fee Account 08-1641 (docket number 40296-0005) Fee Fee Fee Fee Fee Description Paid Number Code (\$) Code (\$) 1051 130 2051 65 Surcharge - late filing fee or oath Deposit Surcharge - late provisional filing fee Account HELLER EHRMAN WHITE & McAULIFFE 1052 50 2052 25 or cover sheet Name 1053 130 1053 130 Non-English specification The Commissioner is authorized to: (check all that apply) For filing a request for ex parte 1812 2,520 1812 2.520 reexamination ☐ Charge fee(s) indicated below ☐ Credit any overpayments 1804 920* 1804 9201 Requesting publication of SIR prior to Examiner action ☐ Charge any additional fee(s) during the pendency of this application 1805 1.840* 1805 1,840* Requesting publication of SIR after Examiner action ☐ Charge fee(s) indicated below, except for the filing fee to the above-1251 110 2251 55 Extension for reply within first month identified deposit account. Extension for reply within second FEE CALCULATION 1252 410 2252 205 1. BASIC FILING FEE 1253 930 2253 465 Extension for reply within third month Entity Small Large Entity Fee Description Fee Paid Extension for reply within fourth 1254 1,450 2254 725 Fee Fee Fee Fee month Code (\$) Code (\$) Extension for reply within fifth 1255 1,970 2255 985 month 1001 750 2001 375 Utility filing fee 750 1401 320 2401 160 Notice of Appeal 1002 330 2002 165 Design filing fee 1402 320 2402 160 Filing a brief in support of an appeal 1003 520 2003 260 Plant filing fee 1403 280 2403 140 Request for oral hearing Petition to institute a public use 1004 750 2004 375 Reissue filing fee 1451 1,510 1451 1,510 proceeding 1005 160 2005 80 Provisional filing 1452 110 2452 55 Petition to revive - unavoidable SUBTOTAL (1) 750 1453 1,300 2453 650 Petition to revive - unintentional 1501 1,300 2501 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 650 Utility issue fee (or reissue) Fee from 1502 470 2502 235 Design issue fee **Extra Claims** below Fee Paid Total 18 -20** 0 18 1503 630 2503 315 Claims Plant issue fee Independent 9 6 -3** = х 84 504 1460 130 1460 130 Petitions to the Commissioner Claims Multiple Dependent 280 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Large Entity Small Entity Fee Description Fee Submission of Information Disclosure Fee Fee Fee 1806 180 1806 180 Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20 8021 40 8021 40 Recording each patent assignment per 40 property (times number of properties) 1201 84 2201 42 Independent claims in excess of 3 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a)) 1203 280 2203 140 Multiple dependent claim, if not 1810 750 2810 375 For each additional invention to be paid examined (37 CFR 1.129(b)) 1204 84 2204 **Reissue independent claims 1801 750 2801 375 Request for Continued Examination over original patent 1205 18 2205 **Reissue claims in excess of 20 1802 900 1802 900 Request for expedited examination of and over original patent a design application SUBTOTAL (2) Other fee (specify)_ (\$) 504.00 **or number previously paid, if greater; For Reissues, see above * Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)40.00 SUBMITTED BY Complete (if applicable)

Name (Print/Type) Registration No. 34,649 202.912.2000 Telephone (Attorney/Agent) Signature Date July 30, 2003 Customer No. 26633